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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/898,068	07/05/2001	Mutsuyoshi Ito	SON-2158	1305
23353 7590 12/02/2003				
RADER FISHMAN & GRAUER PLLC LION BUILDING 1233 20TH STREET N.W., SUITE 501 WASHINGTON, DC 20036				
EXAMINER GRAYBILL, DAVID E				
ART UNIT 2827 PAPER NUMBER				

DATE MAILED: 12/02/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

**Advisory Action**

Applicati n No.

09/898,068

Applicant(s)

ITO, MUTSUYOSHI

Examiner

David E Graybill

Art Unit

2827

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED 14 May 2003 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. Therefore, further action by the applicant is required to avoid abandonment of this application. A proper reply to a final rejection under 37 CFR 1.113 may only be either: (1) a timely filed amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114.

**PERIOD FOR REPLY** (check either a) or b)

- a) ☐ The period for reply expires \_\_\_\_\_ months from the mailing date of the final rejection.  
b) ☒ The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection. ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

1. ☒ A Notice of Appeal was filed on 26 September 2003. Appellant's Brief must be filed within the period set forth in 37 CFR 1.192(a), or any extension thereof (37 CFR 1.191(d)), to avoid dismissal of the appeal.  
2. ☒ The proposed amendment(s) will not be entered because:  
(a) ☒ they raise new issues that would require further consideration and/or search (see NOTE below);  
(b) ☒ they raise the issue of new matter (see Note below);  
(c) ☒ they are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or  
(d) ☐ they present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: See Continuation Sheet

3. ☐ Applicant's reply has overcome the following rejection(s): \_\_\_\_\_.  
4. ☐ Newly proposed or amended claim(s) \_\_\_\_\_ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).  
5. ☐ The a) ☐ affidavit, b) ☐ exhibit, or c) ☐ request for reconsideration has been considered but does NOT place the application in condition for allowance because: \_\_\_\_\_.  
6. ☐ The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection.  
7. ☒ For purposes of Appeal, the proposed amendment(s) a) ☒ will not be entered or b) ☐ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.

The status of the claim(s) is (or will be) as follows:

Claim(s) allowed: \_\_\_\_\_

Claim(s) objected to: \_\_\_\_\_

Claim(s) rejected: \_\_\_\_\_

Claim(s) withdrawn from consideration: \_\_\_\_\_

8. ☐ The drawing correction filed on \_\_\_\_\_ is a) ☐ approved or b) ☐ disapproved by the Examiner.  
9. ☐ Note the attached Information Disclosure Statement(s) (PTO-1449) Paper No(s). \_\_\_\_\_.  
10. ☒ Other: See Continuation Sheet

David E Graybill  
Primary Examiner  
Art Unit: 2827

Continuation of 2. NOTE: The amendments, unless specifically indicated infra as provisionally enterable, raise new issues that would have to be thoroughly considered in order to determine if the amendments constitute new matter, and the amendments would otherwise require undue further consideration and/or search. However, the amendments to claim 13 would be acceptable as placing the claims in better form for appeal or complying with objections or requirements as to form, if a separate paper was filed containing only such amendment. The amendment to claim 4 will not be entered because the cancellation of claim 4 would result in the improper dependency of claims 12 and 14.

Continuation of 10. Other: The remarks have been considered but they do not place the application into condition for allowance because they are directed to the unentered amendment, and they do not otherwise appear to overcome the rejections.

Applicant's remarks filed 5-14-3 have been considered and are addressed infra.

Applicant argues that Higgins does not teach an insulating substrate.

This argument is respectfully traversed because, as cited in the Office action, Higgins teaches that the insulating substrate is epoxy-glass, polyimide-glass, cyanate ester-glass, bismaleimide-triazine resin-glass, and polytetrafluoroethylene-glass, and these are insulating materials. Furthermore, the totality of the disclosure is drawn to an insulating substrate because, if the substrate was not insulating, the conductive traces would be undesirably shorted together, and could not otherwise be routed as taught. Indeed, at column 7, lines 3-7, Higgins teaches this avoidance of shorting.

Also, applicant asserts that "Figures 4 and 7 of Higgins fails to disclose, teach or suggest a heat radiating plate."

This assertion is respectfully deemed unpersuasive because Figures 4 and 7 of Higgins are not necessarily relied on for a teaching of a heat radiating plate. Moreover, as cited in the rejections, for example, at column 3, lines 28-30; column 5, lines 4-7; column 6, lines 22-25; column 8, lines 32-35 and 58-61; and column 10, lines 59-61, Higgins teaches this limitation.

Applicant further contends that "Higgins fails to disclose, teach or suggest cavities 16, 106 being encapsulated by encapsulating resin, as

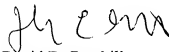
claimed"; and further alleges, "The Office action fails to provide guidance as to where this feature is actually found." Applicant also alleges that Higgins does not teach that the encapsulating resin is planarized.

These allegations are respectfully traversed because these limitations are explicitly, clearly and adequately addressed and further clarified in the rejection of the claims.

***Any telephone inquiry of a general nature or relating to the status (MPEP 203.08) of this application or proceeding should be directed to Group 2800 Customer Service whose telephone number is 703-306-3329.***

Any telephone inquiry concerning this communication or earlier communications from the examiner should be directed to David E. Graybill at (703) 308-2947, or after about 02/05/04, (571) 272-1930. Regular office hours: Monday through Friday, 8:30 a.m. to 6:00 p.m.

The fax phone number for group 2800 is (703) 872-9306.



David E. Graybill  
Primary Examiner  
Art Unit 2827